

# Math Methods Performance Assessment

## Part One: Tools

- A. Evaluate four hands-on tools that elementary-age students can use to explore mathematical concepts, including the following for each tool:
- one use of the tool to explore mathematical concepts
  - one specific benefit of using the tool to explore mathematical concepts
  - one specific challenge of using the tool to explore mathematical concepts

### Tool 1: Base-Ten Blocks

Use/Application of Hands-on Tool 1: Students can use Base-Ten Blocks in learning measurement concepts, such as volume and area, in addition to helping them to visually learn number and place value concepts such as regrouping in addition and subtraction.

Benefit of Hands-on Tool 1: One advantage of using Base-Ten Blocks is that it allows for students to manipulate a physical object as they gain a deeper understanding of addition, subtraction, counting, number sense, place value, patterns, and how to express numbers in various ways.

Challenge of Hands-on Tool 1: One challenge of using Base-Ten Blocks is that it does not allow students to build groups of ten on their own since they are already in rods of ten. The students must already know that 1 ten rod is the same as grabbing 10 (ten).

### Tool 2: Attribute Blocks

Use/Application of Hands-on Tool 2: Students can use Attribute Blocks to learn the concepts of sorting, patterning, and how to identify attributes (colors, shapes, and thickness), comparing and contrasting, and classification.

Benefit of Hands-on Tool 2: One advantage of using Attribute Blocks is that students can use them to build their math vocabulary when describing the features of each block (attribute, red, blue, yellow, triangle, rectangle, square, circle, hexagon, large, small, thick, thin) while interacting with them (making patterns, sorting).

Challenge of Hands-on Tool 2: One challenge of using Attribute Blocks is that some students may not have yet mastered the mathematical concept of shape recognition. Students with no prior math exploration with shapes will have difficulty naming each figure in the set, thus causing them to struggle with completing the activity they are working on at that moment.

### Tool 3: Rulers

Use/Application of Hands-on Tool 3: Rulers can be used for teaching students how to measure the length of a line, the height, width, and circumference of an object using both inches and centimeters. It also teaches them how to read the number markings as a measurement of a line or object.

Benefit of Hands-on Tool 3: One advantage of using rulers is that students can use them to make sure they have the correct measurement of an object, and they can use the straight edge of the ruler to create precise lines.

Challenge of Hands-on Tool 3: One challenge of using a ruler is that students may not know how to align the ruler when measuring a line or object correctly. They may line up the ruler and the object or line at the "1" mark instead of at the "0" mark, therefore throwing off the line or object's measurement.

# Elementary Math Methods

**Mary M. Hatfield**



## **Elementary Math Methods:**

**Mathematics Methods for Elementary and Middle School Teachers** Mary M. Hatfield, Nancy Tanner Edwards, Gary G. Bitter, 2007-11-02 Always on the cutting edge of mathematics teaching the new Sixth Edition continues to integrate technology with hands on experience and the latest research and standards The CD packaged with this book features videos with guiding questions to analyze real teacher student interaction in the hard to teach math concepts It also includes colored patterns to download that will help readers practice hands on manipulations as they prepare for interactive test items

*Elementary Math Methods* Donald D. Paige, 1986      *Mathematics Methods for Elementary and Middle School Teachers* Mary M. Hatfield, 2004-04-29 An activity based approach to teaching with an emphasis on using manipulatives to build conceptual understanding This invaluable book combines practical teaching ideas video examples updated assessment techniques and the NCTM Assessment Standards to give teachers all the background they need to introduce elementary and middle school students to the wonders of mathematics      Learning about Mathematics in Elementary Methods Courses

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**School** Mary M. Hatfield, Nancy Tanner Edwards, Gary G. Bitter, 1993-01-01 *Mathematics Methods for Elementary and Middle School Teachers, B* Mary M. Hatfield, 2000-01-01 **Elementary Mathematics Is Anything but Elementary: Content and Methods From A Developmental Perspective** Damon L. Bahr, Lisa Ann DeGarcia, 2008-12-19 Inspiring empowering and preparing preservice teachers for today's classroom ELEMENTARY MATHEMATICS IS ANYTHING BUT ELEMENTARY CONTENT AND METHODS FROM A DEVELOPMENTAL PERSPECTIVE is a comprehensive program that delivers both a content and a methods text Serving as a professional development guide for both pre service and in service teachers this text's integrated coverage helps dissolve the line between content and methods and consequently bolsters teachers confidence in their delivery of math instruction A strong emphasis on the National Council of Teachers of Mathematics five core standards provides key information common to most state curricula relative to NCTM standards for pre K through sixth grade In addition text content is based on thorough elementary mathematical scope and sequences that have been shown to be an effective means for guiding the delivery of curriculum and instruction Important Notice Media content referenced within the product description or the product text may not be available in the ebook version Teaching Elementary Mathematics Nancy L. Smith, Diana V. Lambdin, Mary Lindquist, Robert E. Reys, 2003-05-05 Updated to reflect recent advances in mathematical teaching methods Teaching Elementary Mathematics A Resource for Field Experiences 2nd Edition is a hands on field manual for elementary school teachers It features a range of activities to enhance student field experiences including observation and practicum These activities may be used with any math methods text currently used or as a stand alone component in any course The great flexibility of the activities also meets the unique needs of students teaching elementary mathematics *Elementary Math Methods* Kujawa, 1998-09-01 **Elementary Mathematics Methods** Max Jerman, Edward C. Beardslee, 1978 **Elementary Mathematical Methods** Diane Thiessen, 1989 This book contains 15 chapters 1 Teaching Problem Solving 2 Using Calculators and Computers in Elementary School Mathematics 3 Organizing for Instruction 4 Teaching Numeration of Whole Numbers 5 Teaching Numeration of Common and Decimal Fractions 6 Teaching Addition and Subtraction of Whole Numbers 7 Teaching Multiplication and Division of Whole Numbers 8 Teaching Addition and Subtraction of Common and Decimal Fractions 9 Teaching Multiplication and Division of Common and Decimal Fractions 10 Teaching Measurement 11 Teaching Geometry 12 Teaching Rates Ratios Proportions and Percents 13 Teaching Statistics and Probability 14 Teaching Integers and Their Operations and 15 Teaching Number Patterns and Theory The two appendices include discussions on Calculators and Computers and Mainstreaming Can Individual Needs be Met The chapters in this book reflect the strands taught in the elementary school mathematics curriculum Throughout each chapter are collections of problem sets that divide the chapter into sections A number of these problems are similar to lessons that could be used with elementary school children PK Elementary and Middle School Mathematics John A. Van de Walle, 2007 This leading K 8 math methods book has the most coverage of the NCTM standards the strongest coverage of

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**Mathematics Methods for Elementary and Middle School Teachers** Mary M. Hatfield, Nancy Tanner Edwards, Gary G. Bitter, 1997-01 Innovative techniques and approaches for modern mathematics teaching This fifth edition continues to integrate technology with hands on experience and the latest research and standards Highlights Praxis II Style Test Questions This is the only textbook that gives you these questions which will help you prepare for the high stakes test used for teacher certification National Research Council's New Research on Mathematical Proficiency Includes Student Assessments Lesson Plans and Family Math Packets to support all five strands Students with Special Needs Features alternative teaching strategies especially for these students Eighteen Video Vignettes The CD packaged with this text features videos with guiding questions to analyze real teacher student interaction in the hard to teach math concepts

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